A

·	Application No.	Applicant(s)
	10/840,212	EDSALL ET AL.
Niction of Allewshiller	Examiner	Art Unit
·	Toan D. Nguyen	2616
	Ioan υ. Nguyen	2016
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS (Conserved to the conserved of the conserved that the conse	OR REMAINS) CLOSED in or other appropriate common GHTS. This application is so	in this application. If not included nunication will be mailed in due course. THIS
. This communication is responsive to <u>8/3/06</u> .	•	
. ☑ The allowed claim(s) is/are <u>1-44, 47-48 are renumbered 1-46</u>	<u>5, respectively</u> .	
 B. ☐ Acknowledgment is made of a claim for foreign priority und a) ☐ All b) ☐ Some* c) ☐ None of the: 	er 35 U.S.C. § 119(a)-(d)	or (f).
1. Certified copies of the priority documents have b	peen received.	
2. Certified copies of the priority documents have b		on No
3. Copies of the certified copies of the priority docu	• •	
International Bureau (PCT Rule 17.2(a)).		о по
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	NT of this application.	
. A SUBSTITUTE OATH OR DECLARATION must be submitted INFORMAL PATENT APPLICATION (PTO-152) which gives	ed. Note the attached EXA reason(s) why the oath o	AMINER'S AMENDMENT or NOTICE OF r declaration is deficient.
. CORRECTED DRAWINGS (as "replacement sheets") must i		
(a) including changes required by the Notice of Draftspersor	n's Patent Drawing Review	w (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's A Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84 each sheet. Replacement sheet(s) should be labeled as such in the	I(c)) should be written on the header according to 37 CF	he drawings in the front (not the back) of FR 1.121(d).
. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT FO	OF BIOLOGICAL MATE OR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the OLOGICAL MATERIAL.
.ttachment(s)		
. ☐ Notice of References Cited (PTO-892)	5. Notice of In	nformal Patent Application
☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🛛 Interview St	Summary (PTO-413),
☐ Information Disclosure Statements (PTO/SB/08),	Paper no./ 7. ⊠ Examiner's	/Mail Date <u>10/13/06</u> . :Amendment/Comment
Paper No./Mail Date 7/21/05 Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's	Statement of Reasons for Allowance
of Distriction Marketal		
of Biological Material	9.	

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. James A. Blanchette on October 13, 2006.

2. The application has been amended as follows:

IN THE CLAIMS:

The following claim 47 as follows:

"47. (NEW) A computer readable medium containing executable program instructions for operating a router, the executable program instructions comprising program instructions configured to:

establish a primary VLAN, the primary VLAN to receive packets from outside of the router through the one or more promiscuous ports and to transfer the packets to one or more community ports, the primary VLAN to reject packets received from the one or more community ports; and

establish a community VLAN, the community VLAN to receive packets from outside the router on a community port of the one or more community ports and to transfer the packets to the one or more promiscuous ports and to transfer the packets

to any other community ports of the one or more community ports, the community VLAN rejecting packets received from the one or more promiscuous ports."

has been renumbered --- 48. (NEW) A computer readable medium containing executable program instructions for operating a router, the executable program instructions comprising program instructions configured to:

establish a primary VLAN, the primary VLAN to receive packets from outside of the router through the one or more promiscuous ports and to transfer the packets to one or more community ports, the primary VLAN to reject packets received from the one or more community ports; and

establish a community VLAN, the community VLAN to receive packets from outside the router on a community port of the one or more community ports and to transfer the packets to the one or more promiscuous ports and to transfer the packets to any other community ports of the one or more community ports, the community VLAN rejecting packets received from the one or more promiscuous ports. ---

Allowable Subject Matter

3. The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the prior art fails to teach a combination of the steps of:

establishing a second VLAN from the plurality of user ports, the second VLAN

receiving packets from the user ports and transferring them to the port connected to the
shared network, the second VLAN preventing transfer of packets from one of the user

ports to other user ports, and the second VLAN also rejecting packets from the shared

network, in order to separate packet traffic of different users, in the specific combination as recited in the claim.

Regarding claim 3, the prior art fails to teach a combination of the steps of:

means for establishing a second VLAN from the plurality of user ports, the
second VLAN receiving packets from the user ports and transferring them to the port
connected to the shared network, the second VLAN preventing transfer of packets from
one of the user ports to other user ports, and the second VLAN also rejecting packets
from the shared network, in order to separate packet traffic of different users, in the
specific combination as recited in the claim.

Regarding claim 5, the prior art fails to teach a combination of the steps of:

a second VLAN from the plurality of user ports, the second VLAN to receive

packets from the user ports and transferring them to the port connected to the shared

network, the second VLAN to prevent transfer of packets from one of the user ports to

other user ports, and the second VLAN also to reject packets from the shared network,

in order to separate packet traffic of different users, in the specific combination as

recited in the claim.

Regarding claim 7, the prior art fails to teach a combination of the steps of:
an isolated VLAN, the isolated VLAN to receive packets from outside of the
router through an isolated port of the one or more isolated ports and to transfer the
packets to the one or more promiscuous ports, the isolated VLAN to prevent transfer of
the packets from the isolated port to another isolated port of the one or more isolated
ports, and the isolated VLAN to prevent transfer of the packets from the isolated port to

Application/Control Number: 10/840,212

Art Unit: 2616

the one or more community ports, and the isolated VLAN to reject from a the one or more promiscuous ports, in the specific combination as recited in the claim.

Regarding claim 11, the prior art fails to teach a combination of the steps of: an isolated VLAN, the isolated VLAN to receive packets from outside of the router through an isolated port of the one or more isolated ports and to transfer the packets to the one or more promiscuous ports, the isolated VLAN to prevent transfer of the packets from the isolated port to another isolated port of the one or more isolated ports, and the isolated VLAN to reject packets from the one or more promiscuous ports, in the specific combination as recited in the claim.

Regarding claim 12, the prior art fails to teach a combination of the steps of:
a community VLAN, the community VLAN to receive packets from outside the
router at a community port of the one or more community ports and to transfer the
packets to the one or more a promiscuous ports and to transfer the packets to any other
community ports of the one or more community ports, the community VLAN reject
packets from the one or more promiscuous ports, in the specific combination as recited
in the claim.

Regarding claim 13, the prior art fails to teach a combination of the steps of:

a second VLAN, the second VLAN to receive packets from outside the router at the one or more other ports and to transfer the packets to the one or more promiscuous ports, the second VLAN to reject packets from the one or more promiscuous ports, in the specific combination as recited in the claim.

Regarding claim 15, the prior art fails to teach a combination of the steps of:

a second VLAN, the second VLAN to receive packets from outside the router at a one or more other ports and to transfer the packets to the one or more promiscuous ports of the one or more promiscuous ports, the second VLAN to reject packets from the one or more promiscuous ports, in the specific combination as recited in the claim.

Regarding claim 18, the prior art fails to teach a combination of the steps of:
receiving a packets by an isolated VLAN, the isolated VLAN receiving the
packets from outside of the router through an isolated port of the one or more isolated
ports and transferring the packets to the one or more promiscuous ports, the isolated
VLAN preventing transfer of the packets from the isolated port to another isolated port
of the one or more isolated ports, and the isolated VLAN preventing transfer of the
packets from the isolated port to the one or more a community ports, and the isolated
VLAN rejecting packets from the one or more promiscuous ports, in the specific
combination as recited in the claim.

Regarding claim 22, the prior art fails to teach a combination of the steps of:
receiving packets by an isolated VLAN, the isolated VLAN receiving packets from
outside of the router through an isolated port of the one or more isolated ports and
transferring the packets to the one or more promiscuous ports, the isolated VLAN
preventing transfer of the packets from the isolated port to another isolated port of the
one or more isolated ports, and the isolated VLAN rejecting packets from the one or
more promiscuous ports, in the specific combination as recited in the claim.

Regarding claim 23, the prior art fails to teach a combination of the steps of:

receiving a packets by a community VLAN, the community VLAN receiving packets from outside the router at a community port of the one or more community ports and transferring the packets to a the one or more promiscuous ports and transferring the packets to any other community ports of the one or more community ports, the community VLAN rejecting packets from the one or more promiscuous ports, in the specific combination as recited in the claim.

Regarding claim 24, the prior art fails to teach a combination of the steps of:
receiving a packets by a second VLAN, the second VLAN receiving packets from
outside the router at the one or more other ports and transferring the packets to the one
or more promiscuous ports, the second VLAN rejecting packets from the one or more
promiscuous ports, in the specific combination as recited in the claim.

Regarding claim 26, the prior art fails to teach a combination of the steps of:
receiving a packets by a second VLAN, the second VLAN receiving packets from
outside the router at a one or more other ports and transferring the packets to a
promiscuous port of the one or more promiscuous ports, the second VLAN rejecting
packets from the one or more promiscuous ports, in the specific combination as recited
in the claim.

Regarding claim 29, the prior art fails to teach a combination of the steps of:

means for receiving a-packets by an isolated VLAN, the isolated VLAN receiving
the packets from outside of the router through an isolated port of the one or more
isolated ports and transferring the packets to the one or more promiscuous ports, the
isolated VLAN preventing transfer of the packets from the isolated port to another

isolated port of the one or more isolated ports, and the isolated VLAN preventing transfer of the packets from the isolated port to the one or more a community ports, and the isolated VLAN rejecting packets from the one or more promiscuous ports, in the specific combination as recited in the claim.

Regarding claim 33, the prior art fails to teach a combination of the steps of:

means for receiving a-packets by an isolated VLAN, the isolated VLAN receiving

packets from outside of the router through an isolated port of the one or more isolated

ports and transferring the packets to the one or more promiscuous ports, the isolated

VLAN preventing transfer of the packets from the isolated port to another isolated port

of the one or more isolated ports, and the isolated VLAN rejecting packets from the one

or more promiscuous ports, in the specific combination as recited in the claim.

Regarding claim 34, the prior art fails to teach a combination of the steps of:
means for receiving a-packets by a community VLAN, the community VLAN
receiving packets from outside the router at a community port of the one or more
community ports and transferring the packets to the one or more promiscuous ports and
transferring the packets to any other community ports of the one or more community
ports, the community VLAN rejecting packets from the one or more promiscuous ports,
in the specific combination as recited in the claim.

Regarding claim 35, the prior art fails to teach a combination of the steps of:

means for receiving a-packets by a second VLAN, the second VLAN receiving packets from outside the router at the one or more other ports and transferring the packets to a the one or more promiscuous ports, the second VLAN rejecting packets

from the one or more promiscuous ports, in the specific combination as recited in the claim.

Regarding claim 39, the prior art fails to teach a combination of the steps of:

a first isolated VLAN within the router, the first isolated VLAN to receiving

packets through an isolated port connected to the first LAN and to transferring the

packets to the promiscuous port, the first isolated VLAN to prevent transfer of the

packets from the isolated port connected to the first LAN to another isolated port, and
the isolated VLAN rejecting packets from the one or more promiscuous ports; and

a second isolated VLAN within the router, the second isolated VLAN to receive packets through an isolated port connected to the second LAN and to transferring the packets to the promiscuous port, the second isolated VLAN to prevent transfer of the packets from the isolated port connected to the second LAN to another isolated port, and the second isolated VLAN to reject packets from the promiscuous port, in the specific combination as recited in the claim.

Regarding claim 40, the prior art fails to teach a combination of the steps of: receiving packets by a first isolated VLAN within the router, the first isolated VLAN receiving packets through an isolated port connected to the first LAN and transferring the packets to the promiscuous port, the first isolated VLAN preventing transfer of the packets from the isolated port connected to the first LAN to another isolated port, and the first isolated VLAN rejecting packets from the one or more promiscuous ports; and

receiving packets by a second isolated VLAN within the router, the second isolated VLAN receiving packets through an isolated port connected to the second LAN and transferring the packets to the promiscuous port, the second isolated VLAN preventing transfer of the packets from the isolated port connected to the second LAN to another isolated port, and the second isolated VLAN rejecting packets from the promiscuous port, in the specific combination as recited in the claim.

Regarding claim 41, the prior art fails to teach a combination of the steps of:

means for receiving a-packets by a first isolated VLAN within the router, the first
isolated VLAN receiving packets through an isolated port connected to the first LAN and
transferring the packets to the promiscuous port, the first isolated VLAN preventing
transfer of the packets from the isolated port connected to the first LAN to another
isolated port, and the first isolated VLAN rejecting packets from the one or more
promiscuous ports; and

means for receiving packets by a second isolated VLAN within the router, the second isolated VLAN receiving packets through an isolated port connected to the second LAN and transferring the packets to the promiscuous port, the second isolated VLAN preventing transfer of the packets from the isolated port connected to the second LAN to another isolated port, and the second isolated VLAN rejecting packets from the promiscuous port, in the specific combination as recited in the claim.

Regarding claim 42, the prior art fails to teach a combination of the steps of:

a first community VLAN within the router, the first community VLAN to receive packets through the first group of community ports connected to the first group of LANs

and to transferring the packets to the promiscuous port, the first community VLAN to prevent transfer of the packets from the first group of community ports to the second group of community ports, and the first community VLAN to reject packets from the one or more promiscuous ports; and

a second community VLAN within the router, the second community VLAN to receive packets through the second group of community ports connected to the second group of LANs and to transfer the packets to the promiscuous port, the second community VLAN to prevent transfer of the packets to the first group of community ports, and the second community VLAN to reject packets from the promiscuous port, in the specific combination as recited in the claim.

Regarding claim 43, the prior art fails to teach a combination of the steps of:
receiving packets from a first group of community ports by a first community

VLAN within the router, the first community VLAN receiving packets through the first
group of community ports connected to the first group of LANs and transferring the
packets to the promiscuous port, the first community VLAN preventing transfer of the
packets from the first group of community ports to the second group of community ports,
and the first community VLAN rejecting packets from the one or more promiscuous
ports; and

receiving packets from a second group of community ports by a second community VLAN within the router, the second community VLAN receiving packets through the second group of community ports connected to the second group of LANs and transferring the packets to the promiscuous port, the second community VLAN

preventing transfer of the packets to the first group of community ports, and the second community VLAN rejecting packets from the promiscuous port, in the specific combination as recited in the claim.

Regarding claim 44, the prior art fails to teach a combination of the steps of:
means for receiving packets from a first group of community ports by a first
community VLAN within the router, the first community VLAN receiving packets through
the first group of community ports connected to the first group of LANs and transferring
the packets to the promiscuous port, the first community VLAN preventing transfer of
the packets from the first group of community ports to the second group of community
ports, and the first community VLAN rejecting packets from the one or more
promiscuous ports; and

means for receiving packets from a second group of community ports by a second community VLAN within the router, the second community VLAN receiving packets through the second group of community ports connected to the second group of LANs and transferring the packets to the promiscuous port, the second community VLAN preventing transfer of the packets to the first group of community ports, and the second community VLAN rejecting packets from the promiscuous port, in the specific combination as recited in the claim.

Regarding claim 47, the prior art fails to teach a combination of the steps of:
establish a second VLAN from the plurality of user ports, the second VLAN to
receive packets from the user ports and to transfer them to the port connected to the
shared network, the second VLAN to prevent transfer of packets from one of the user

ports to other user ports, and the second VLAN also to reject packets from the shared network, to thereby separate packet traffic of different users, in the specific combination as recited in the claim.

Regarding claim 48, the prior art fails to teach a combination of the steps of:
establish a community VLAN, the community VLAN to receive packets from
outside the router on a community port of the one or more community ports and to
transfer the packets to the one or more promiscuous ports and to transfer the packets
to any other community ports of the one or more community ports, the community
VLAN rejecting packets received from the one or more promiscuous ports, in the
specific combination as recited in the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan D. Nguyen whose telephone number is 571-272-3153. The examiner can normally be reached on M-F (7:00AM-4:30PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/840,212

Art Unit: 2616

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Page 14

ΤN

HUY 49. VU

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600